The image is a black and white advertisement for Tokina lenses. It features several Tokina lenses of various types (wide-angle, zoom, telephoto) arranged on a dark, textured surface. The main title 'Tokina' is at the top in a large, stylized font. Below it, the text 'LENSES for 35mm Single-Lens Reflex Camera' is in a smaller, sans-serif font. To the right, 'LENS CATALOGUE' is written in a large, serif font. Further down, the lens types 'Wide, Wide-Zoom, Standard-Zoom, Telephoto, Telephoto-Zoom' are listed. The background is a dark, textured surface, possibly a book cover or a studio backdrop. The lenses are shown from various angles, highlighting their design and features like the aperture ring and focal length markings.

Tokina

LENSES for 35mm Single-Lens Reflex Camera

LENS CATALOGUE

Wide, Wide-Zoom,
Standard-Zoom,
Telephoto, Telephoto-Zoom

Constant Progress Through Evolution



AT-X

lens technology is a concept of Tokina which has been developed continually over the past 21 years, ever since the introduction of the first AT-X lens in 1981. Right up to the present Pro Series models, depicted by their gold rings, each new model has evolved from the previous designs and incorporates the most up to date technology available. The AT-X lens was born by forging ahead into new areas and this constant progress takes time to achieve.

Tokina does not simply make lenses and assemble parts. It uses special material selection and parts assembly technology based on micron unit quality control to ensure optimum consistency. Whilst maintaining top quality with each and every lens, Tokina continue to produce lenses which can be relied upon by amateurs and professionals.

AT-X Technology

The term AT-X is derived from our original phrase 'Advanced Technology-Xtra'. This signifies a special group of lenses that are manufactured using the most advanced design and fabrication technologies available. The use of an unprecedented optical configuration system, independently developed by Tokina, has made advanced specifications, high performance, lightweight and compact designs possible. Of course, we have also given full consideration to ergonomics and handling. AT-X means excellent performance from superior technology.

Exterior Finish

1. Hardened Alumite (Armalite) finish on Pro models increases hardness and gives them a top quality feel and appearance.

2. Ergonomic designs, based on human engineering emphasize controls and ease of operation, as with the textured rubber used on zoom and focus barrels. These are original Tokina materials, designed to give many years of faithful service without deterioration.

Mechanisms

1. Coating of all moving metallic parts with special lubricant improves durability.
2. Tokina's independently developed technology maintains the high precision of mechanical fittings, accurately measured in microns.



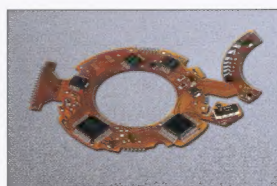
● Aluminum Alloy Die Cast Model

3. Operating rollers used in zooming and internal focus cams are made with micron tolerances to give smooth operation and durability.



● Floating Element Assembly

4. Brass is used in the lens mount to maintain high precision and other mechanisms are plated with hard chrome to enhance durability.



● Flexible Printed Circuit Board

Operation

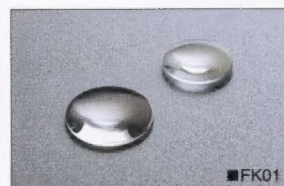
1. Use of special durable aluminum for metal parts provides excellent durability, stabilizes torque and provides better handling. It also maintains smooth operation at all times.
2. Special lubricant used on moving parts is highly resistant to extremes in temperature.



AF300mm f/2.8 SD
AT-X 300AF PRO

Lens coatings

Resistance to flare and ghosting as well as faithful colour reproduction is achieved by means of a unique coating technique which gives clean and sharp images.



● SD (Super Low Dispersion) Glass

AT-X GOLD RING PRO SERIES

The eye of the camera that records every detail with quality and creativity.

The AT-X Gold Ring Pro-series lens designs, much acclaimed by professional photographers throughout the world, evolve at the cutting edge of technology.

AF80~200mm f/2.8 **SP**
AT-X 828AF PRO

AF20~35mm f/2.8 **As**
AT-X 235AF PRO

AF17mm f/3.5 **As**
AT-X 17AF PRO

AF28~80mm f/2.8
AT-X 280AF PRO **SP** **As**

AF28~70mm f/2.6~2.8
AT-X 270AF PRO II

Internal Focus System

● IF (Internal focus) System

The *AT-X235AF PRO* offers well-balanced handling and easy use of filters, since there is no change in overall length of the lens when zooming or focusing and the front filter thread does not rotate.

● IRF (Internal rear focus) System

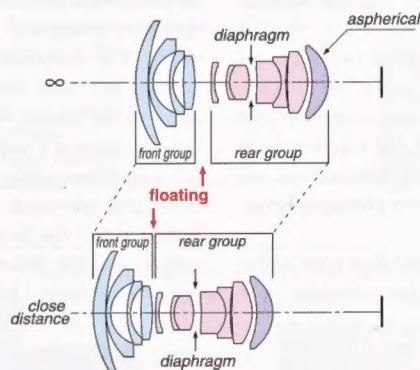
By movement of rear element : *AT-X 300AF PRO*

Floating System

When designing a lens, we calibrate its astigmatism at all points between minimum focus and infinity so that it will give the best results at all settings.

However, when there are large differences between the focus limits, perfect calibration is not possible. By incorporating optical elements which move in proportion to the focus settings, the astigmatism can be corrected and this is called the floating element system. Tokina lenses which use the floating system are the *AT-X 17AF PRO*, *AT-X 828AF PRO* to provide optimum correction of astigmatism from minimum focus to infinity.

● *AT-X17AF PRO* ● *AT-X 828AF PRO*



● Rear group elements shift at different rates during focusing.

Focus Clutch Mechanism

The ability of the focus ring to be pushed forwards and disengaged allows maximum autofocus speed and efficiency. The ring can be pulled back and re-engaged for manual focusing with just the right amount of resistance.

● *AT-X AF PRO SERIES* except *AT-X280AF PRO*

Photo: *AT-X 270AF PRO II*



Auto Focus



Manual Focus

One touch Focus Clutch Mechanism

The newly improved one-touch focus clutch allows the focus to be moved quickly and easily from the AF position back into the MF position.

● *AT-X280AF PRO*

Gold Ring Pro Series

Auto Focus



Photographers will be inspired to explore the enhanced skills provided by this new generation, large diameter Tokina AT-X280AF PRO standard zoom.

AF28~80mm f/2.8 AT-X 280AF PRO

As SD
Aspherical Super-D Multi-Coated

TO FIT MINOLTA • NIKON-D • PENTAX • CANON



This new 28-80mm focal length auto-focus (AF) zoom provides a constant fast aperture of F2.8 throughout its zoom range. The AT-X280AF PRO is the world's first new specification, large-diameter standard zoom and is sure to be in high demand by professional and high-end amateur photographers.

The SD glass and high-level aspherical elements (one moulded glass

and one hybrid) completely correct all aberrations, providing high contrast and sharpness right to the edges. The minimum focus distance is just 50cm throughout the entire zoom range, which allows close up shots at a magnification of 1:5 at the 80mm setting. The newly-developed one-touch focus clutch system allows the focus ring to be moved quickly, from any point, between the AF and MF setting.

This provides good torque feel in MF mode as well as high speed AF and improved handling, without any focus backlash.



Lens Hood BH-775

The large BH-775 wide-angle hood with locking mechanism



One touch Focus Clutch Mechanism

● The lens can be switched from autofocus to manual with one touch operation regardless of the position of the focus ring.

● In Nikon and Canon mount, the lens can be set for manual focusing without setting the AF-MF switch on the lens or body to the MF position.

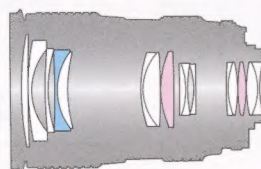


Auto Focus



Manual Focus

- 16 Elements in 11 Groups
- Filter size: $\phi 77\text{mm}$
- Minimum Focus Distance: 0.5m
- Bayonet lens hood: BH-775(Dedicated)



● SD Lens ● Aspherical Lens



AF17mm f/3.5 AT-X 17AF PRO *As*

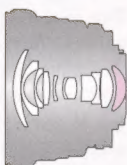
TO FIT MINOLTA • NIKON-D • CANON



Using a floating element system and glass-moulded aspherical elements in the rear lens group, this lens succeeds in achieving high contrast and resolution across the whole image, right into the corners. The AT-X 17AF PRO gives consistently high performance from minimum focus to infinity. The popular focus clutch mechanism provides outstanding handling, letting you take dynamic 17mm super-wide images, effortlessly.



- 11 Elements in 9 Groups
- Filter size: $\phi 77\text{mm}$
- Closest Focus Distance: 0.25m
- Bayonet lens hood: BH-773(Dedicated)



Aspherical Lens



Lens Hood BH-773

- AT-X 17AF PRO
- AT-X 235AF PRO
- AT-X 270AF PRO II

AF20~35mm f/2.8 AT-X 235AF PRO (IF) *As*

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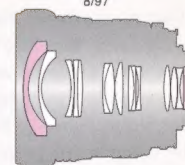


From the moment you look through your viewfinder, this outstanding AT-X optic will give you a dramatic new perspective on the world. The AT-X235AF PRO is a wide-angle zoom lens that will produce dynamic images which are pin-sharp from edge to edge. This eagerly-awaited addition to Tokina's AT-X PRO series of lenses boasts solid construction, internal focus and a fast constant aperture of F2.8 throughout its focal range.

The fast, constant maximum aperture of F2.8 makes photography effortless in difficult situations such as indoors or at dusk. Tokina's Focus-clutch mechanism allows maximum autofocus response and sensitivity when focusing manually.



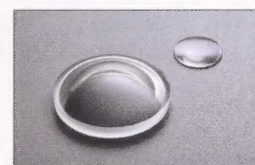
- 15 Elements in 11 Groups
- Filter size: $\phi 77\text{mm}$
- Minimum Focus Distance: 0.5m
- Bayonet lens hood: BH-773(Dedicated)



Aspherical Lens

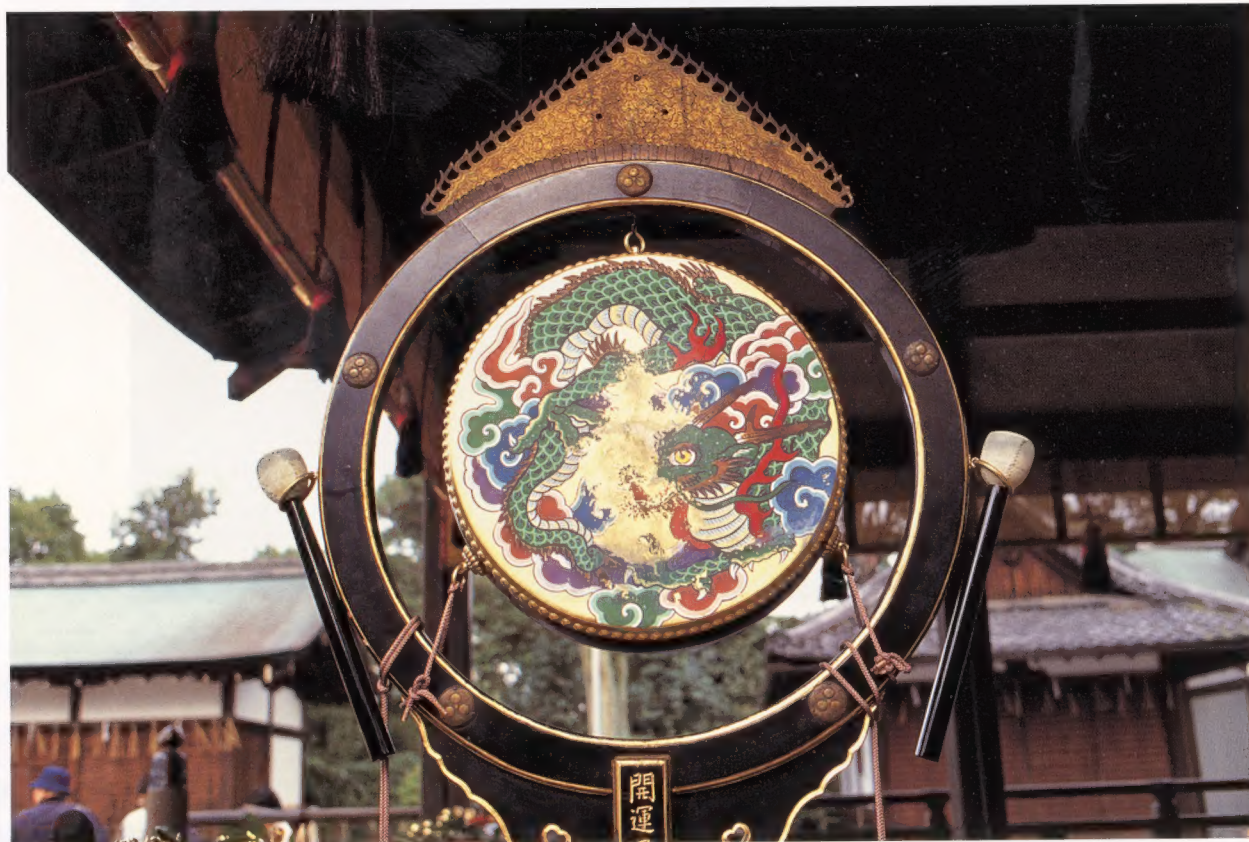


This lens encompasses Tokina's new large diameter F&R Aspherical moulded glass elements of 50mm diameter at the front and 20mm at the rear. These give outstanding performance with even illumination in the corners and correction of distortion and aberration.



Gold Ring Pro Series

Auto Focus



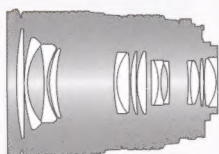
AF28~70mm f/2.6~2.8 AT-X270AF PRO II

TO FIT MINOLTA • NIKON-D • PENTAX • CANON



Tokina redesigned the AT-X 270AF with a new focusing system which increases AF speed and provides a more stable way to handle the lens. Durability has also been increased by using an all metal body-now in the new Armalite finish. Multi-coating has been applied to a larger number of lens surfaces improving contrast while reducing reflections and ghosting. HLD (High Refraction Low Dispersion) glass is also used with this new version. This,

coupled with the above technical advances and a non-rotating front ring, has produced a professional quality standard equipment lens with a maximum aperture of f/2.6 at 28mm and f/2.8 at 70mm.



- 16 Elements in 12 Groups
- Filter size: ø77mm
- Minimum Focus Distance: 0.7m
- Bayonet lens hood: BH-773(Dedicated)

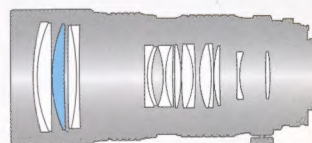
AF80~200mm f/2.8 AT-X828AF PRO SD

TO FIT MINOLTA • NIKON-D • PENTAX • CANON



This is a model built to professional specifications and is based on the AT-X 828AF optical system. Tokina have utilized coating changes in the optical system and the unique floating element system separately focuses the first three and last two elements in the forward lens groups. This provides uniformly high image quality from infinity to close focus. The use of a new exterior finish improves overall handling and durability.

A focus clutch mechanism further improves performance during auto and manual focusing.



- 17 Elements in 11 Groups
- Filter size: ø77mm
- Minimum Focus Distance: 1.8m
- Lens hood: MH-774N(Dedicated)



AF300mm f/2.8 AT-X 300AF PRO (IRF) **SD**

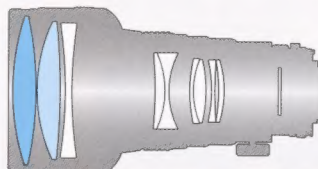
TO FIT MINOLTA • NIKON-D • CANON



Two large diameter SD glass elements in the front lens group correct colour aberration normally associated with telephoto lenses, resulting in high contrast, sharp images. Any photo opportunity is within reach with its fast f2.8 maximum aperture and high autofocus speed, due to the IRF (internal rear

focus) system. The well-balanced handling provided by the focus clutch mechanism transmits the photographer's creativity effortlessly onto the film. The AT-X 300 AF PRO satisfies the needs of the professional with its classic telephoto characteristics and easy use of multiple filters with the rear inserted filter holder.

- 9 Elements in 7 Groups
- Filter size: $\phi 112/\phi 35.5\text{mm}$
- Closest Focus Distance: 2.4m
- Lens hood: MH-112N(Dedicated)



● SD Lens (FK01) ● SD Lens (FK02)

Rear Inserted Gelatin Filter holder (Dedicated)



Gelatin filters can be used with the filter holder included, allowing a choice of colour correction.

*The filter holder cannot be used with a Canon fit lens, but gelatin filters can still be inserted.

Optional 35.5mm Drop-in PL-C Filter for the AT-X300AF PRO lenses



The PL Circular filter eliminates reflection in windows or water and gives more vivid saturation and higher contrast in colour scenic photography.

*Not including Canon mount

Rear inserted gelatin filter holders and drop-in PL-C filters, including old types, can be used with the following models.

*Not including Canon mount

AT-X 300, AT-X 150,
AT-X 300AF, AT-X 300AF II,
AT-X 300AF PRO.

Gold Ring Series

Auto Focus



AF100~300mm f/4 AT-X 340AF II (IF) SD

TO FIT MINOLTA · NIKON · CANON

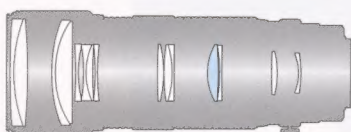


This large diameter telephoto zoom lens provides the high quality normally associated with a prime lens. It also offers a fast, constant aperture of f/4 throughout the entire zoom range. The use of Tokina's IF (internal focus) system for the forward lens group allows a

minimum focus down to two meters, it also gives one of the fastest autofocus speeds in wide diameter zoom lenses.



- 15 Elements in 11 Groups
- Filter size: $\phi 77\text{mm}$
- Minimum Focus Distance: 2.0m
- Lens hood: MH-774N(Dedicated)



SD Lens (FK02)





AF80~400mm f/4.5~5.6 AT-X 840AF II SD

TO FIT MINOLTA • NIKON-D • PENTAX • CANON



A complete range of lenses in one! This is the world's first 80-400 f4.5-5.6 zoom and the world's smallest in that range, but still boasts a bright f/5.6 aperture even at 400 mm. Because of its compact size, firm weight, and built in tripod collar, It handles beautifully on a tripod. Or, for quick and easy hand-held photography, it's designed to be the ultimate travel telephoto lens. The optical path has a built-in flare cutting mechanism,

- 16 Elements in 10 Groups
- Filter size: $\phi 72\text{mm}$
- Closest Focus Distance: 2.5m
- Lens hood: BH-724(Dedicated)

which removes unnecessary light (flare) and yields clean, sharp images. Using the dedicated bayonet lens hood further eliminates stray light striking the front element while SD (APO) glass gives this lens the leading edge in performance.

The AT-X 840AF II lens system is also equipped with a zoom lock to eliminate unwanted movements of the zoom barrel when the lens is pointed downward, by securing the zoom at 80 mm so it can be carried in its most compact form.



6/2001



Zoom-lock mechanism

Often, with wide range zooms, if the lens is set at wide angle and pointed downwards, the weight of the zoom barrel will cause it to slide out towards the telephoto position. The AT-X 840AF II lens system is equipped with a zoom lock to eliminate such movements by securing the zoom at 80 mm so it can be carried in its most compact form. To engage the lock, you simply push the lock button on the side of the lens down when the zoom is set at 80 mm.



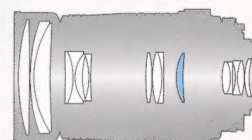
1.



2.

Optional Close Up Lens for AT-X 840AF II

We have produced a dedicated close up lens for the AT-X 840AF II. When this close up lens is mounted on the front of the lens, the minimum focus distance is reduced to 1.4m-2.5m (ranging from wide angle to telephoto). The photograph magnification is 1:13 at 1.4m when the focal length is 80mm, and the maximum magnification at 1.4m when the focal length is 400mm is 1:2.7.



● SD Lens (FK01)

AT-X AF Series

Auto Focus



AF24~200mm f/3.5~5.6 AT-X 242AF (IF) **As** **SD**
TO FIT MINOLTA • NIKON-D • PENTAX • CANON



Tokina has created a new compact lens with an incredible 24-200mm zoom range, perfect for travel and everyday photography.

Through the use of the latest optical design technology, we have incorporated two aspherical elements and SD glass to create a lens with very little astigmatism and a amazingly compact length of only 89 mm, a factor which makes this lens perfect for everyday use. Tokina has advanced the optical quality of super wide range zoom lenses to the point where this 24-200 mm has earned it's place in our higher

quality AT-X line. The AT-X 242 AF is the product of an exceptional commitment to optical design that Tokina is known for worldwide. And with a maximum aperture of f/5.6 at 200 mm, auto focus with any AF camera body will be maintained.

The new zoom range starts at 24 mm which opens a new world of wider angle photography. A whole new world, a whole new powerful perspective, and a whole new creative vision to one lens photography.



24mm

28mm

135mm

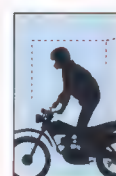
200mm



24mm



28mm



135mm



200mm

The 24 mm photo was taken with the AT-X 242 AF while the other was taken with a 28-200 mm lens. If you're in a tight location where you cannot back up, you will still be able to capture much more of a subject or view with 24 mm than with 28 mm.

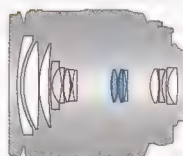
On the telephoto end, the AT-X 242 AF gives you a much more powerful effect than the 24-135 mm. Compare the photos; see how much farther you can zoom in with 200 mm than with 135 mm. By isolating the subject, 200 mm creates a more dramatic picture.

- 13 Elements in 11 Groups
- Filter size: $\phi 77\text{mm}$
- Minimum Focus Distance: 0.4m
- Bayonet lens hood: BH-774

Floating System

foto
SEHR GUT

3/2001



Aspherical Lens Aspherical Lens

Lens Hood BH-775

The large BH-775 wide-angle hood with locking mechanism

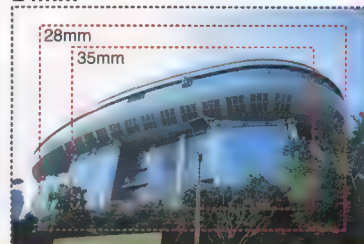


● Horizontal angles of field

24mm

28mm

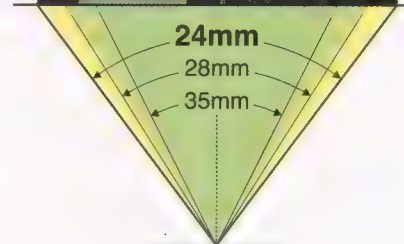
35mm



24mm

28mm

35mm



AF Series

Auto Focus

AF19~35mm f/3.5~4.5 AF 193

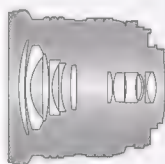
TO FIT MINOLTA • NIKON-D • PENTAX • CANON



This lens gives outstanding performance at all focal lengths from super-wide angle 19mm though to 35mm. It offers easy handling, since there is no change in overall length of the lens when focusing or zooming.

Filters can be used with ease, as the front filter thread does not rotate. Whether you are taking a short

focal length commemorative photo or want to capture a super wide interior shot, this 19mm angle of view will give your results something extra, above and beyond a normal wide zoom lens.



- 13 Elements in 11 Groups
- Filter size: $\phi 77\text{mm}$
- Minimum Focus Distance: 0.4m
- Bayonet lens hood: BH-774



SL Series

Manual Focus

17mm f/3.5 SL17

TO FIT MINOLTA • NIKON • PENTAX • CANON • YASHICA



Superwide: (103°) Sees more than the human eye. Sophisticated: When you need a vast depth-of-field for special effects, or when you want to shoot large groups of

people or get a perfect view of a land or city-scape, it's a cinch with this lens. Technical Achievement: Minimum distortion without sacrificing definition or color balance.



- 11 Elements in 9 Groups
- Filter size: $\phi 67\text{mm}$
- Minimum Focus Distance: 0.25m
- Lens hood: RH-722

28mm f/2.8 SL28

TO FIT MINOLTA • NIKON • PENTAX • CANON • OLYMPUS • YASHICA



A very popular wide angle lens and the lightest of its kind. Providing natural perspective, it's best

suited for architecture and landscape photography.

- 5 Elements in 5 Groups
- Filter size: $\phi 49\text{mm}$
- Minimum Focus Distance: 0.3m
- Lens hood: RH-491



SZ-X Series

Manual Focus



28~70mm f/3.5~4.5 SZ-X270

TO FIT MINOLTA • NIKON • PENTAX • CANON • YASHICA

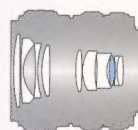


High performance in a very compact zoom lens from wide angle to short telephoto. In macro mode, it allows focusing as close as 0.31m (1 feet) with a 1:4 magnification ratio.

An easy to use, all-round lens with a convenient 52mm filter size.



- 10 Elements in 9 Groups
- Filter size: ø52mm
- Minimum Focus Distance: 0.7m(0.31m)
- Lens hood: SH-522



SD Lens

28~105mm f/3.5~4.8 SZ-X205

TO FIT MINOLTA • NIKON • PENTAX • CANON • OLYMPUS • YASHICA



This all purpose lens will provide the avid shooter with a convenient wide to medium focal range in a lightweight package. It's rotary zoom design also offers a 1:5 macro

ratio for interesting close-ups. The creative capabilities are only limited by your imagination.

- 15 Elements in 12 Groups
- Filter size: ø62mm
- Minimum Focus Distance: 0.5m
- Lens hood: SH-624



28~200mm f/3.5~5.3 SZ-X282

TO FIT MINOLTA • NIKON • PENTAX • CANON • OLYMPUS • YASHICA



With a zoom ratio of over 7:1, this remarkable lens covers all focal lengths required for virtually any situation. It is less than 109mm (4.3 in.) long and weighs only 690g

(24.3oz). Photographic applications range from landscapes and portraits to sports.

- 18 Elements in 16 Groups
- Filter size: ø72mm
- Minimum Focus Distance: 2.5m(1.35m)
- Lens hood: MH-721



70~210mm f/4.5~5.6 SZ-X721

TO FIT MINOLTA • NIKON • PENTAX • CANON



Barely 79mm (3.11 in.) long and 410g (14.5 oz) in weight, this is one of the world's smallest telephoto zoom lenses. Its one-touch system holds focus throughout the zoom,

its size is perfect for fast moving hand-held photography. It's range makes it suitable for a wide range of photographic applications.

- 12 Elements in 9 Groups
- Filter size: ø49mm
- Minimum Focus Distance: 1.5m



75~300mm f/4.5~5.6 SZ-X730

TO FIT MINOLTA • NIKON • PENTAX • CANON • YASHICA



A useful 4x manual focus zoom that cover the entire range from 75mm standard to 300mm telephoto. This lens can easily handle many aspects of photography with

its excellent handling and range of magnifications in a compact body.

- 11 Elements in 8 Groups
- Filter size: ø58mm
- Minimum Focus Distance: 1.7m(1.5m)
- Lens hood: MH-582



Tokina's Lens Technology

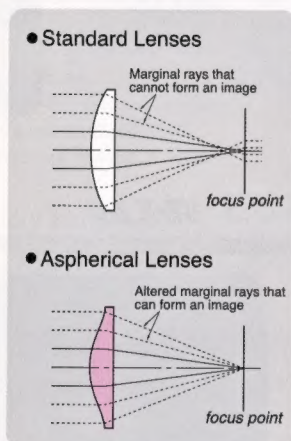
● Aspherical Lenses

Standard lenses are made up from a combination of spherical lenses. However, there can be problems with such lenses as light entering the centre of the lens and that entering the edge may not be perfectly focused at the same point and that presents limits to perfor-

mance in wide diameter lenses and super wide-angle lenses.

Tokina uses aspherical glass lenses in its AT-X 17AF PRO, AT-X 235AF PRO, AT-X 280AF PRO and AT-X 242AF. In addition to correcting spherical astigmatism, these lenses fully correct light quantity and distortion at the edge of the image and provide excellent results when used in combination with floating elements.

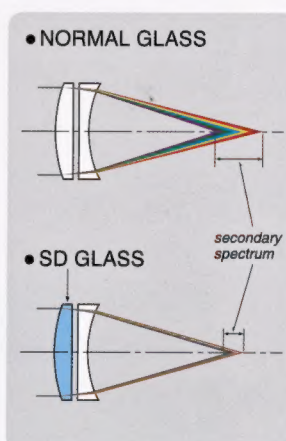
Through technical cooperation with Hoya, we have succeeded in producing high quality moulded glass elements with a greater aspherical shape than any other lens so far. This technique is unparalleled in its technological sophistication and excellence.



● SD (Super Low Dispersion) Glass

Lenses in the range with the SD mark use Super-low Dispersion glass which minimizes the secondary spectrum caused by chromatic aberration. Basically, these lenses use FK01 and FK02 optical materials which gives them SD (APO) qualities.

This provides excellent image quality in telephoto lenses of 200mm or more by correcting colour aberration across the entire picture and bringing all colours into focus accurately at the film plane.



● Internal Focus System (IF)

The two main methods of lens focusing are either the complete straight forward movement of elements (used mainly with single focal length lenses), or the rotation of the entire front lens barrel group (used mainly with zoom lenses). The internal focusing system used by Tokina moves each lens group, but does not change the overall length of

the lens - this is especially useful with telephoto designs.

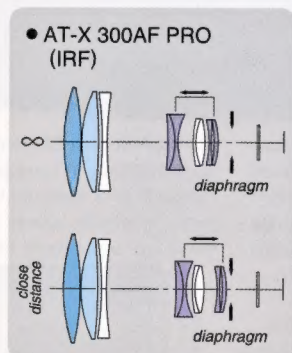
The internal focusing system has a number of advantages, including 1) faster focusing 2) improved handling due to fewer movements near the centre of gravity 3) more compact lens designs and 4) superior use of filters as the front filter thread does not rotate.

● IF (internal focus system)

By movement of forward elements : AT-X 235AF PRO, AT-X 340AF II, AT-X 242AF

● IRF (internal rear focus system)

By movement of rear elements : AT-X 300AF PRO



● Depth of Field

When you focus on the subject, there is the part of the subject that is in focus and there are the parts in front and behind that are not in focus. This range in which the object is seen to be sharply in focus is called the depth of field. If the focal length is kept the same, the depth of field gets deeper (the range in which the subject is sharp gets wider) as the aperture is stopped down, and it gets shallower (the range in which the subject is sharp gets

narrower) as the aperture is opened. Even when the aperture stop is the same, the depth of field gets shallower as the subject distance gets shorter, and deeper as the subject gets further away. Furthermore the depth of field is deeper with a short focal length wide angle lens, and shallower with a long focal length telephoto lens.



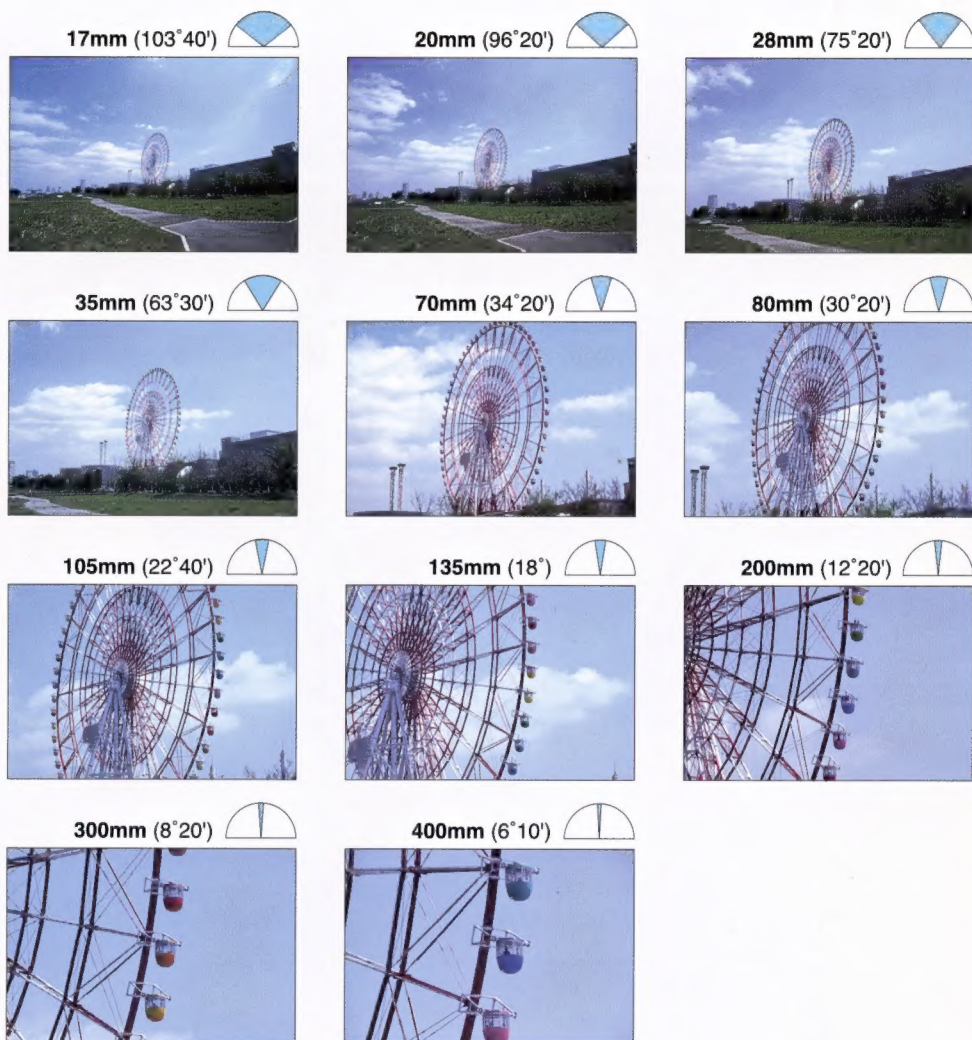
80mm F2.8



80mm F22

● Angle of view

The range across the film surface onto which the subject is exposed is expressed as an angle, called the angle of view. Wide-angle lenses with their short focal lengths have a wide angle of view, which means the exposure range is wide. Conversely, telephoto lenses, which have long focal lengths, have a narrow angle of view, making the exposure range narrow. So a wide-angle lens is used to take a wide area of a subject nearby whereas a telephoto lens is used to take only part of a subject located further away. A single zoom lens, meanwhile, can function as a number of lenses with different focal lengths, enabling you to smoothly alter the angle of view and quickly frame the shot. You can select your lens to create the effect of distance or depth of field, or to suit the location and surrounding conditions.



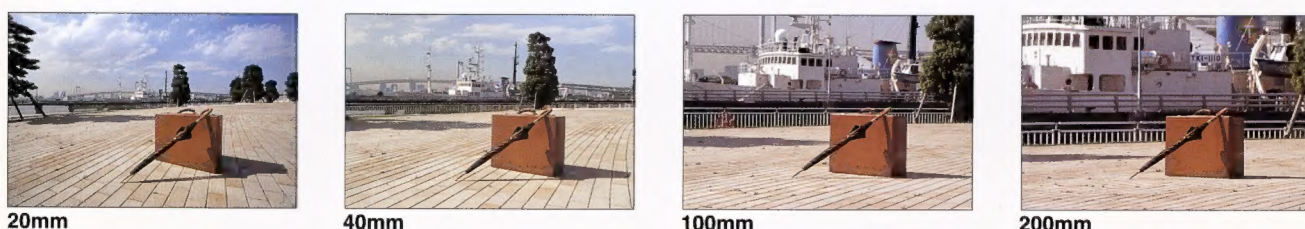
● Perspective

Perspective is the visual effect of moving a subject which is in the foreground closer to or further from the background. If you take photographs with lenses of dif-

ferent focal length while keeping the size of the subject in the foreground constant, the background appears to be further away and the sense of perspective

is exaggerated with a short focal length wide angle lens. With a long focal length telephoto lens, the background appears to be closer to the subject and the sense of per-

spective is lessened. You can greatly change the feeling of presence even with the same subject by using this sense of perspective.



Technical Specifications

LENS	Mount	Optical Construction Elements / Groups	Diagonal Angle of View	Closest Focus Distance from Film Plane (in Macro Mode)	Magnification ratio in Macro Mode	Aperture Range	Filter size (mm)	Dimensions (mm) Diameter	Dimensions (mm) Length	Weight (gram)	Lens Hood
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AUTO FOCUS LENSES

AT-X 17AF PRO	17mm f/3.5	M N/D C	11/9	103°40'	0.25m	—	f/3.5~f/22	77	84	57	435	BH773
AT-X 235AF PRO	20~35mm f/2.8	M N/D P C	15/11	96°20'~63°30'	0.5m	—	f/2.8~f/22	77	84	85.5	585	BH773
AT-X 270AF PRO II	28~70mm f/2.6~2.8	M N/D P C	16/12	75°20'~34°20'	0.7m	—	f/2.6~f/22	77	82.7	109.5	760	BH773
AT-X 280AF PRO	28~80mm f/2.8	M N/D P C	16/11	75°20'~30°20'	0.5m	1: 5	f/2.8~f/22	77	84	120	810	BH775
AT-X 828AF PRO	80~200mm f/2.8	M N/D P C	17/11	30°20'~12°20'	1.8m	—	f/2.8~f/32	77	84	184	1,350	MH774N
AT-X 300AF PRO	300mm f/2.8	M N/D C	9/7	8°20'	2.4m	—	f/2.8~f/32	112/35.5	117	213.5	2,040	MH112N
AT-X 242AF	24~200mm f/3.5~5.6	M N/D P C	15/13	84°10'~12°20'	0.8m	1: 5.97	f/3.5~f/22	72	81.8	89	690	BH723
AT-X 840AF II	80~400mm f/4.5~5.6	M N/D P C	16/10	30°20'~ 6°10'	2.5m	1: 5.4	f/4.5~f/32	72	77.2	136	1,050	BH724
AT-X 340AF II	100~300mm f/4	M N C	15/11	24°30'~ 8°20'	2.0m	—	f/4~f/32	77	83	230	1,540	MH774N
AF 193	19~35mm f/3.5~4.5	M N/D P C	13/11	98°40'~63°30'	0.4m	—	f/3.5~f/22	77	82.2	77	400	BH774

MANUAL FOCUS LENSES

SZ-X 270	28~70mm f/3.5~4.5	M N P C Y	10/9	75°20'~34°20'	0.7m (0.31m)	1: 4	f/3.5~f/22	52	64	64.7	325	SH522
SZ-X 205	28~105mm f/3.5~4.8	M N P C O Y	15/12	75°20'~22°40'	0.5m	1: 5	f/3.5~f/22	62	65	69.8	380	SH624
SZ-X 282	28~200mm f/3.5~5.3	M N P C O Y	18/16	75°20'~12°20'	2.5m (1.35m)	1: 5.5	f/3.5~f/22	72	74	109	690	MH721
SZ-X 721	70~210mm f/4.5~5.6	M N P C	12/9	34°20'~11°50'	1.5m	1: 4.5	f/4.5~f/22	49	67	86	410	—
SZ-X 730	75~300mm f/4.5~5.6	M N P C Y	11/8	32°10'~ 8°20'	1.7m (1.5m)	1: 3.8	f/4.5~f/22	58	65	152.5	730	MH582
SL 17	17mm f/3.5	M N P C Y	11/9	103°40'	0.25m	—	f/3.5~f/16	67	70	49.2	305	RH722
SL 28	28mm f/2.8	M N P C O Y	5/5	75°20'	0.3m	—	f/2.8~f/22	49	63.5	36	160	RH491

- 1g = 0.03527 oz
- 10mm = 0.39370 inch
- 1m = 3.28084 feet

● The external appearance and specifications shown in this catalogue may be changed without any advance notice.

● Auto Focus Lenses M : TO FIT MINOLTA AF P : TO FIT PENTAX AF
N : TO FIT NIKON AF-S C : TO FIT CANON AF
N/D : TO FIT NIKON AF-D

● Manual Focus Lenses M : TO FIT MINOLTA MD P : TO FIT PENTAX PK O : TO FIT OLYMPUS OM
N : TO FIT NIKON AI-S C : TO FIT CANON FD Y : TO FIT YASHICA ML/CONTAX

Accessories

■ Optional Filters Sets for the AT-X300AF PRO lenses. (35.5mm)

Set #1 (for Color Photography)
B12 (80A-80B), B2 (82A),
A12 (85-85B), A2 (81A)



Set #2 (for B & W Photography)
R60 (25A), O56 (15G),
Y48 (8K2), UV (UV)



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